

# Notice of Allowability

Application No.

09/887,103

Examiner

Callie E. Shosho

Applicant(s)

ISHIZUKA, TAKAHIRO

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1714

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 4/17/06 and telephonic interview conducted 6/14/06.
2. ☒ The allowed claim(s) is/are 3-7,9-11,13,15-17 and 21.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 6/14/06.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

(1) Claim 3, line 53 after the formulae, after "R<sub>81</sub>" and before "represent", insert "each".

(2) Claim 21, line 12 after the formula, after "a sulfinio group," and before "a phosphino group", delete "and" and insert "or".

2. Authorization for this examiner's amendment was given in a telephone interview with Roger Lee on 6/14/06.

**Statement of Reasons for Allowance**

3. In the office action mailed 12/16/05, all claims were rejected under 35 USC 112, first paragraph and second paragraph.

Applicant's amendment filed 4/17/06 overcomes all rejections of record.

Thus, the present claims are allowable over the "closest" prior art Keoshkerian et al. (U.S. 5,545,504) for the following reasons:

Keoshkerian et al. disclose water-based ink jet ink wherein the ink comprises colored particulates containing oil-soluble dye and AB block copolymer which is formed from hydrophobic segment and hydrophilic segment. The colored particulates possess particle size of 0.3-10 microns. Keoshkerian et al. disclose method for producing ink jet ink comprising the colored particulate wherein the method comprises forming the colored particulate by adding the block copolymer to water and/or solvent, monomer, and oil-soluble dye followed by stirring and heating to produce colored resin emulsion. This is in direct contrast to the present claims that require method for producing ink jet ink comprising the colored particulate wherein the method comprises forming the colored particulate by emulsifying and making into particulates an organic solvent phase which comprises the block copolymer and the oil-soluble dye by either adding water to the organic solvent phase or adding the organic solvent phase to water. There is no disclosure or suggestion in Keoshkerian et al. of emulsifying and making into particulates an organic solvent phase which comprises the block copolymer and the oil-soluble dye by either adding water to the organic solvent phase or adding the organic solvent phase to water as required in all the present claims. Further, there is no disclosure in Keoshkerian et al. of specific

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oil-soluble dye of formula I as required in all the present claims. Additionally, there is no disclosure of the amount of ionic group in the block copolymer as required in all the present claims.

Thus, it is clear that Keoshkerian et al. do not disclose or suggest the present invention.

In light of the above, the present claims are passed to issue.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Callie E. Shosho whose telephone number is 571-272-1123. The examiner can normally be reached on Monday-Friday (6:30-4:00) Alternate Fridays Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Callie E. Shosho  
Primary Examiner  
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CS  
6/15/06